

## **PAGING TRANSMITTER SPECIFICATION**

(Ver: 3.1, 27 May 04)

### **Narrowband (12.5 KHz) Solid-State Paging Transmitter Specification**

**(Quantity required = 2):**

- 1.) Compatible with existing ZETRON 640 DAPT XTRA Paging Terminal
- 2.) Modulation Accommodates Two-tone Sequential, 5/6 Tone and Binary FSK-NRZ Signaling with tone alert, Tone and Voice, Golay Sequential Code (GSC), or POCSAG Digital Coding for Numeric Display or Alpha-Numeric Text Display
- 3.) Power 100-250 Watts RF Out Continuous Duty and continuously adjustable
- 4.) Programmable VHF Frequency (132-174 MHz) [current Freq = 163.5125 MHz]
- 5.) Tone Remote Control and FM Paging Universal Remote Control (PURC)
- 6.) Non-Simulcast Control (Stand alone, single site, co-located with Zetron Terminal)
- 7.) Frequency Stability +/- 2 PPM or better
- 8.) Carrier Squelch (non-CTCSS)
- 9.) 120VAC, 60 Hz Input Power
- 10.) 19" Rack mounted (preferred) or Cabinet included in quote
- 11.) Audio distortion less than 2% at 1000 Hz; 60% system deviation
- 12.) FM Hum and Noise -50 dB; 300-3000 Hz modulation bandwidth
- 13.) Audio Response Flat, within +/- 1dB, 250-1500 Hz, +1, -3 dB 1500-3000 Hz, referenced to 1000 Hz
- 14.) Dual Ferro-Resonant or Switching supply with a power input of 95 to 125 VAC, 60 Hz Power Supplies (Note: User supplied UPS)
- 15.) Local and Remote Computer Diagnostic. (Note: All Software must be provided for Remote and Local Diagnostics. Must be compatible with Window 2000, or above)
- 16.) Digital Wattmeter display for forward/reflected RF Power
- 17.) Power and Modulation Status Alarms
- 18.) Antenna 50 Ohms (prefer Type N connector)
- 19.) Test Microphone (Qty 1)
- 20.) Two sets of all Maintenance Manuals (w/ Schematics, Parts List, & installation and optimization instructions)
- 21.) Two copies of required Programming Software (frequency & parameter prog)
- 22.) 1 Set system spare boards (one set total, not one set per transmitter)